WHAT IS CLAIMED IS:

1	1. A data storage device, comprising:
2	a write head for writing data onto a magnetic disk;
3	a write circuit for generating the write current to be supplied to said write
4	head by using a supplied positive voltage and a supplied negative voltage;
5	a converter for generating said negative voltage to be supplied to said
6	write circuit from said positive voltage; and
7	a controller for variably setting the magnitude of said negative voltage.
1	2. The data storage device according to claim 1, wherein said controller sets
2	the magnitude of said negative voltage in accordance with an ambient temperature for said
3	magnetic disk.
1	3. The data storage device according to claim 2, wherein said controller sets
2	a large absolute value for said negative voltage if said ambient temperature is low, and sets a
3	small absolute value for said negative voltage if said ambient temperature is high.
1	4. The data storage device according to claim 1, wherein said controller sets
2	the magnitude of said negative voltage in accordance with the magnitude of said positive
3	voltage.
1	5. The data storage device according to claim 4, wherein said controller sets
2	a large absolute value for said negative voltage if said positive voltage is low, and sets a small
3	absolute value for said negative voltage if said positive voltage is high.
1	6. The data storage device according to claim 1, wherein said controller
2	changes the magnitude of said negative voltage when said write head is not performing a write
3	operation.
1	7. The data storage device according to claim 1, wherein said write circuit
2	ensures that the write current value used for a specified period after the start of a write is greater
3	than the write current value used after the elapse of the specified period.

- 1 8. The data storage device according to claim 1, wherein said write circuit is 2 of a voltage-driven type that directly provides voltage drive for said write head.
 - 9. The data storage device according to claim 1, wherein said converter comprises a register for storing a voltage command from said controller and a voltage converter for converting the voltage in accordance with the value stored in said register.
 - 10. A data write method, comprising:

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- a first step of receiving a seek command or a write command for a read/write head over a magnetic disk;
- a second step of setting the magnitude of the negative voltage to be

 supplied to a drive circuit for said read/write head in accordance with a specified condition; and

 a third step of causing said read/write head over said magnetic disk to

 perform a seek operation or a write operation.
 - 11. The data write method according to claim 10, wherein said specified condition is the ambient temperature for said magnetic disk.
 - 12. The data write method according to claim 11, wherein said second step sets a large absolute value for said negative voltage if said ambient temperature is low and sets a small absolute value for said negative voltage if said ambient temperature is high.
 - 13. The data write method according to claim 10, wherein said specified condition is the magnitude of supplied said positive voltage.
 - 14. The data write method according to claim 13, wherein said second step sets a large absolute value for said negative voltage if said positive voltage is low and sets a small absolute value for said negative voltage if said positive voltage is high.
 - 15. A program enabling a computer to exercise a first function for receiving a seek command or a write command for a read/write head over a magnetic disk; a second function for setting, in accordance with a specified condition, the magnitude of the negative voltage to be supplied to a write circuit which drives said read/write head; and a third function for causing said read/write head over said magnetic disk to perform a seek operation or a write operation.